

# Pre-Prod Connectivity Testing: Market Information Management (MIM) Application Programming Interface (API) Using MIM Web Services Toolkit (MWT)

February 28, 2025



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# Preface

This document outlines the test cases to be executed as part of the pre-production connectivity testing phase for the applications that are impacted by the Market Renewal Program (MRP). The primary objective is to assess and validate the connectivity of the systems whose endpoints are changing in the environment.

Please ensure any anomalies, disruptions, or irregularities discovered while performing the pre-production connectivity test are reported via qTest or the Issue Log Template. This will contribute significantly to the overall improvement of the IESO tools.

## **Precondition:**

- 1. Production API Credentials (username and password) to access**  
<https://webservices.ieso.ca/mim2>
- 2. Must have the MWT.zip package available. MWT Toolkit available for download at**  
<https://www.ieso.ca/en/Market-Renewal/Market-Participant-Readiness/Technical-Reference-Materials> . **Navigate to *Market Information Management System* section and download the *MIM Web Services Toolkit (MWT)*.**
- 3. Must have Java SDK 1.8.x installed on the machine. The Java version installed on a windows machine can be confirmed running the command `java -version` on Command Prompt.**

# TC01 - Access MIM API Using MWT Toolkit

## Step User Instruction

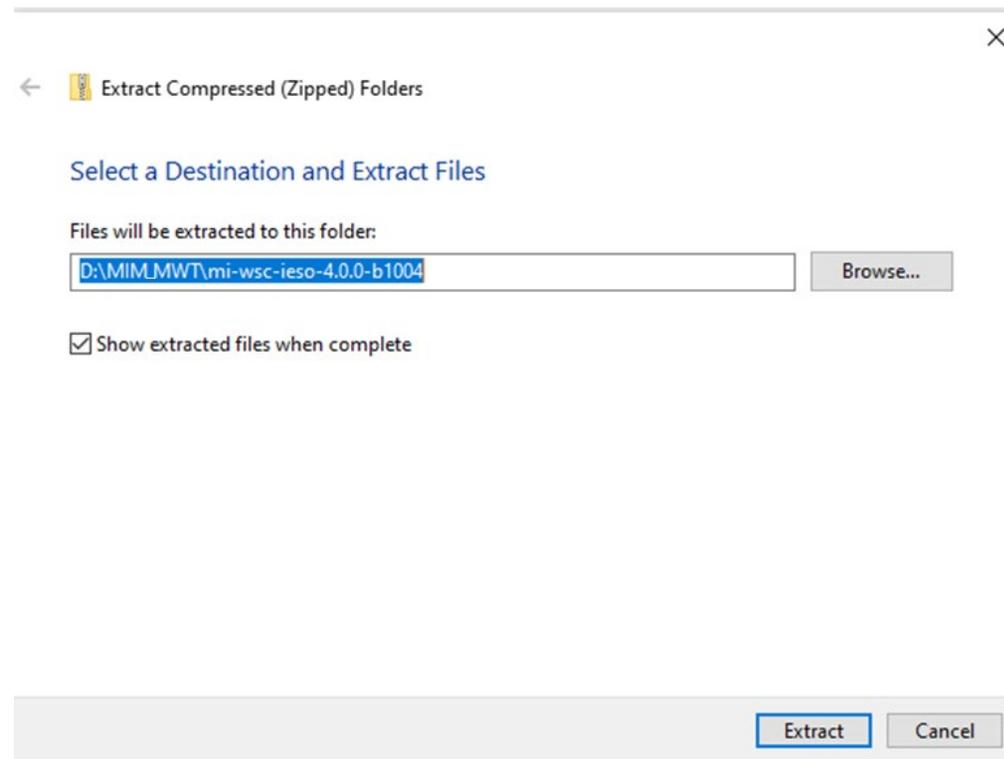
## Expected Result

1. **Extract MWT Toolkit** files from the zip file downloaded into a folder of your choice on the windows machine. In this case the folder used will be:  
D:\MIM\_MWT\

To extract:

1. Right click the .zip file
2. Select "Extract All"
3. Set the path
4. Click **Extract**

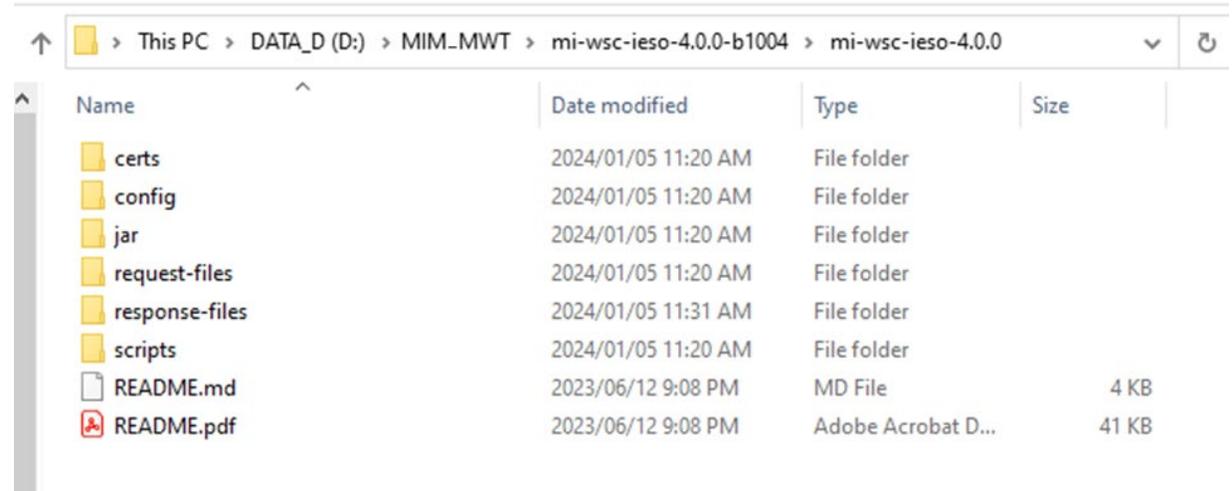
As shown below, specify the output path and select **Extract**.



**Step User Instruction****Expected Result**

- 2 Verify files have been extracted, and open the extracted folder.

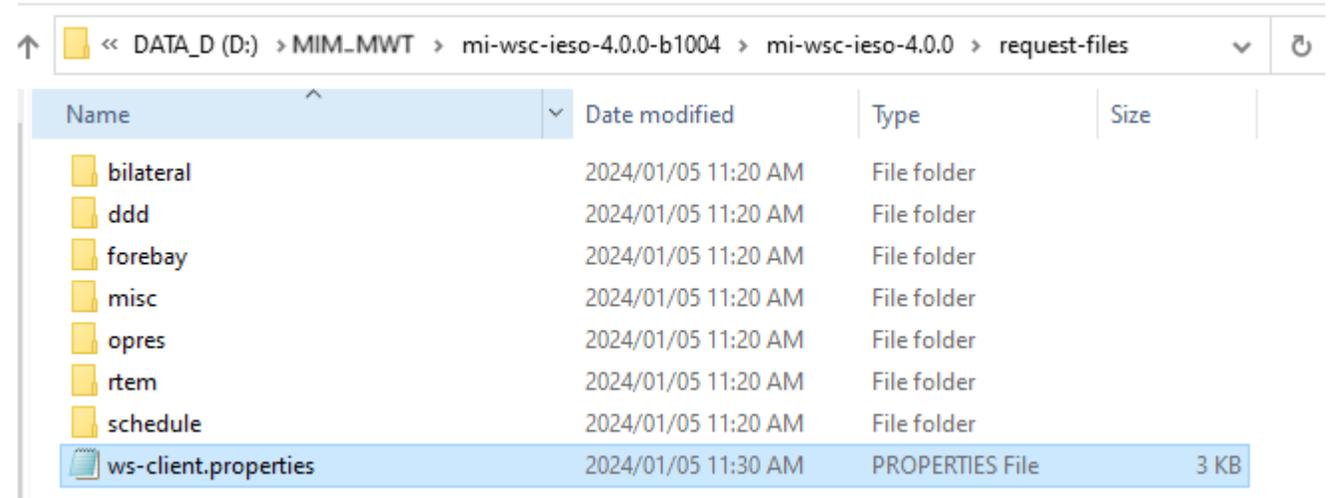
The file structure should be same as the screenshot below:



**Step User Instruction****Expected Result**

- 3 Open the **request-files/ws-client.properties** file, using your **Notepad** application.

The **ws-client.properties** file will be in the **request-files** folder:



## Step User Instruction

## Expected Result

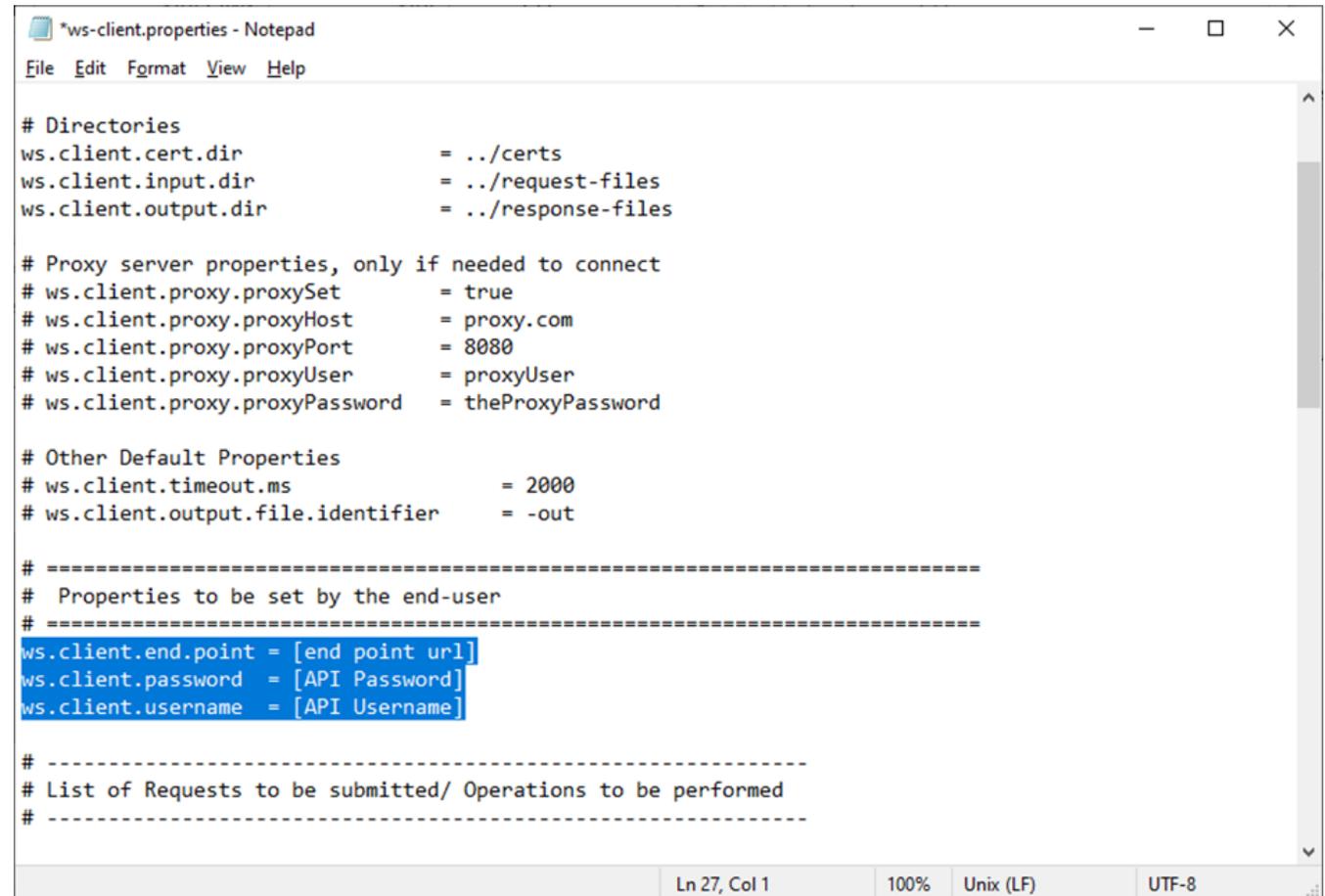
- 4 Update the following information in the file:

**ws.client.end.point** = <https://webservices.ieso.ca/mim2>

**ws.client.password** = [API Password]

**ws.client.username** = [API Username]

- Update the 3 fields below with the API endpoint provided and your API password and username.



```
*ws-client.properties - Notepad
File Edit Format View Help

# Directories
ws.client.cert.dir           = ../certs
ws.client.input.dir          = ../request-files
ws.client.output.dir         = ../response-files

# Proxy server properties, only if needed to connect
# ws.client.proxy.proxySet   = true
# ws.client.proxy.proxyHost  = proxy.com
# ws.client.proxy.proxyPort  = 8080
# ws.client.proxy.proxyUser  = proxyUser
# ws.client.proxy.proxyPassword = theProxyPassword

# Other Default Properties
# ws.client.timeout.ms       = 2000
# ws.client.output.file.identifier = -out

# -----
# Properties to be set by the end-user
# -----
ws.client.end.point = [end point url]
ws.client.password  = [API Password]
ws.client.username  = [API Username]

# -----
# List of Requests to be submitted/ Operations to be performed
# -----

Ln 27, Col 1    100%    Unix (LF)    UTF-8
```

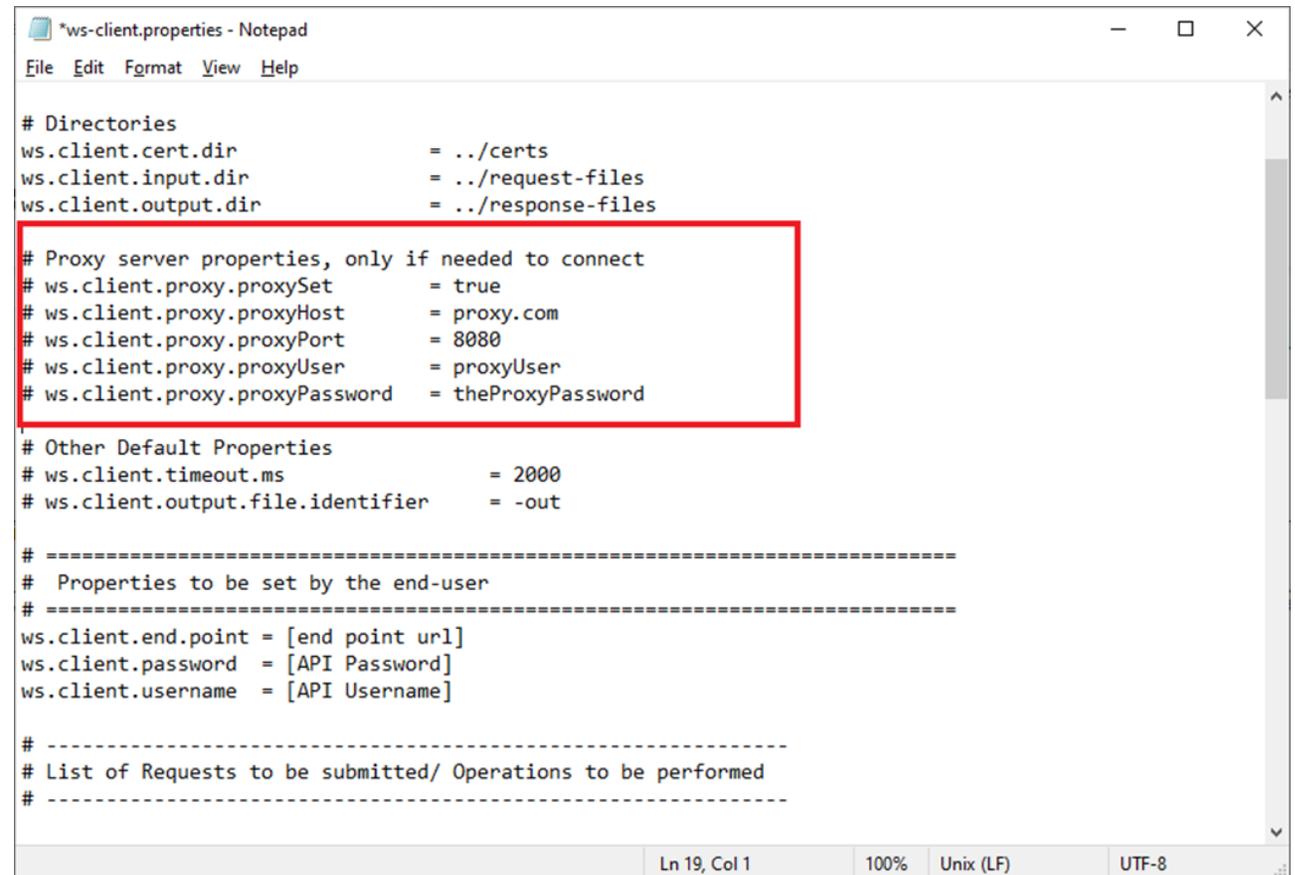
## Step User Instruction

## Expected Result

- 5 If required, update the proxy server properties in the same file.

Save the file if any changes are made.

This is an optional step. Update the following fields to update the proxy server properties. If updated, remove the pound sign (#) before each setting.



```
*ws-client.properties - Notepad
File Edit Format View Help

# Directories
ws.client.cert.dir          = ../certs
ws.client.input.dir         = ../request-files
ws.client.output.dir        = ../response-files

# Proxy server properties, only if needed to connect
# ws.client.proxy.proxySet   = true
# ws.client.proxy.proxyHost  = proxy.com
# ws.client.proxy.proxyPort  = 8080
# ws.client.proxy.proxyUser  = proxyUser
# ws.client.proxy.proxyPassword = theProxyPassword

# Other Default Properties
# ws.client.timeout.ms       = 2000
# ws.client.output.file.identifier = -out

# =====
# Properties to be set by the end-user
# =====
ws.client.end.point = [end point url]
ws.client.password = [API Password]
ws.client.username = [API Username]

# -----
# List of Requests to be submitted/ Operations to be performed
# -----

Ln 19, Col 1    100%  Unix (LF)  UTF-8
```

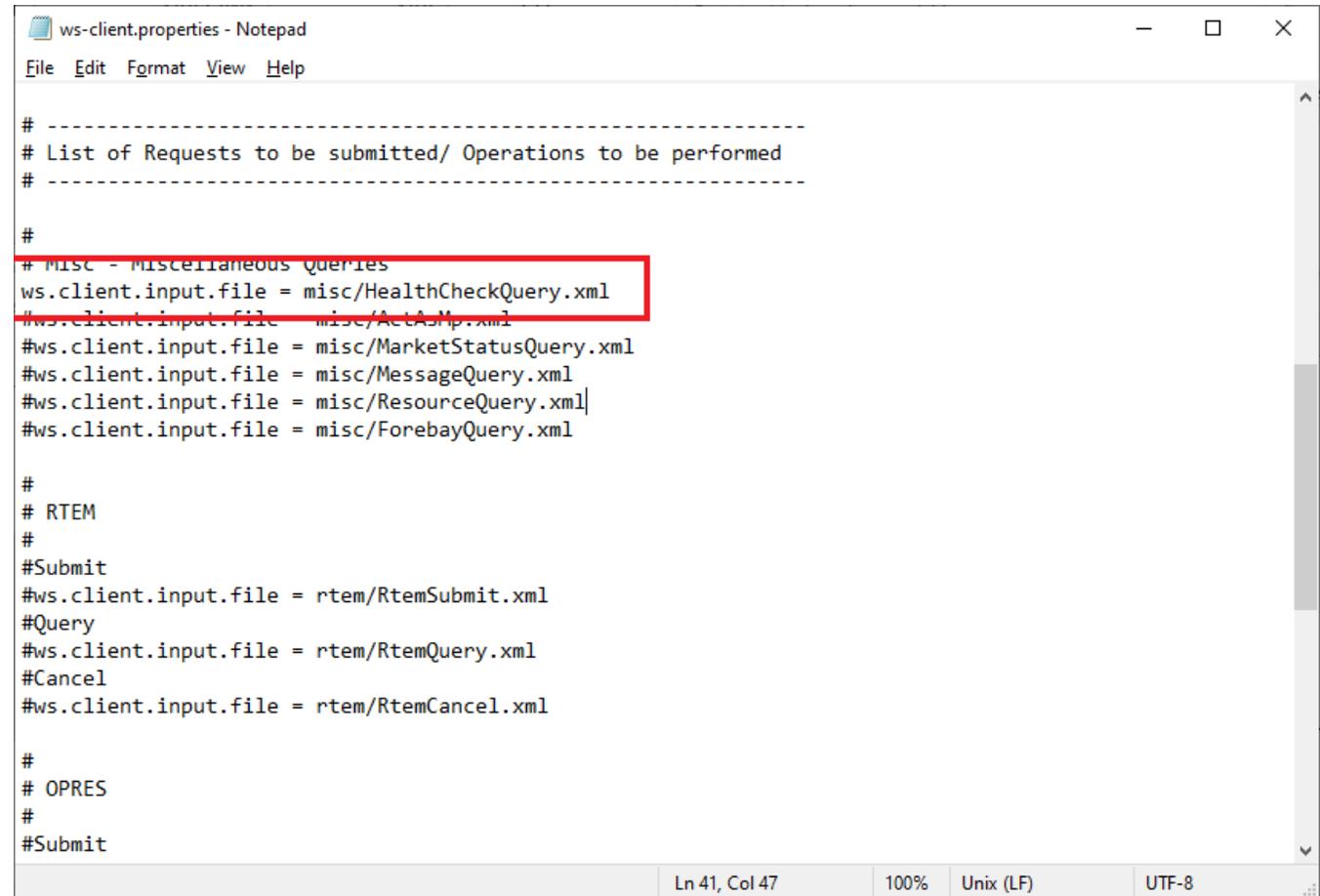
## Step User Instruction

## Expected Result

- 6 In that same ws-client.properties file, verify the **HealthCheckQuery.xml** is active under **Miscellaneous Queries**.

Save and close the file if any changes are made.

The row with the **HealthCheckQuery.xml** should not have a pound sign (#) in front of it for it to be active. Ensure all the remaining lines below it have a pound sign (#) at the start as shown below.



```
ws-client.properties - Notepad
File Edit Format View Help
# -----
# List of Requests to be submitted/ Operations to be performed
# -----
#
# MISC - Miscellaneous Queries
ws.client.input.file = misc/HealthCheckQuery.xml
#ws.client.input.file = misc/ActAsMp.xml
#ws.client.input.file = misc/MarketStatusQuery.xml
#ws.client.input.file = misc/MessageQuery.xml
#ws.client.input.file = misc/ResourceQuery.xml
#ws.client.input.file = misc/ForebayQuery.xml
#
# RTEM
#
#Submit
#ws.client.input.file = rtem/RtemSubmit.xml
#Query
#ws.client.input.file = rtem/RtemQuery.xml
#Cancel
#ws.client.input.file = rtem/RtemCancel.xml
#
# OPRES
#
#Submit
Ln 41, Col 47 100% Unix (LF) UTF-8
```

**Step User Instruction****Expected Result**

7 Navigate to the **scripts** folder.

The folder should have the **run-client.bat** file.

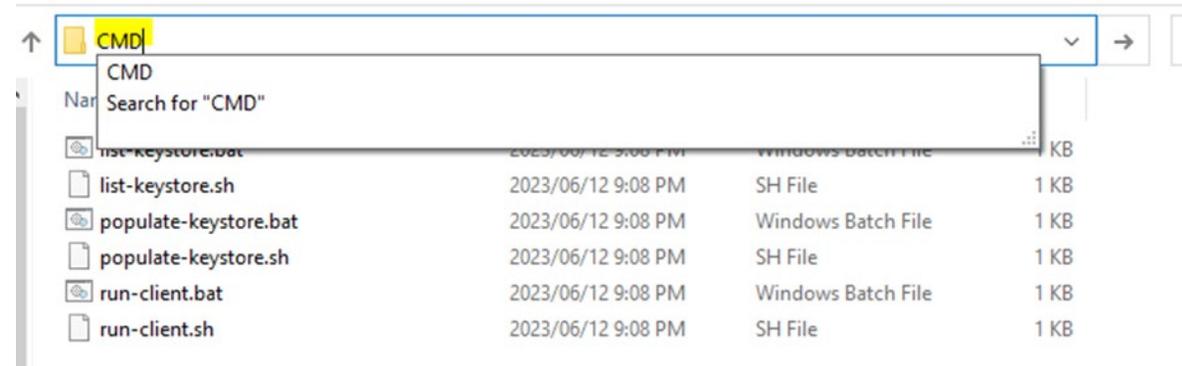
Name	Date modified	Type	Size
list-keystore.bat	2023/06/12 9:08 PM	Windows Batch File	1 KB
list-keystore.sh	2023/06/12 9:08 PM	SH File	1 KB
populate-keystore.bat	2023/06/12 9:08 PM	Windows Batch File	1 KB
populate-keystore.sh	2023/06/12 9:08 PM	SH File	1 KB
run-client.bat	2023/06/12 9:08 PM	Windows Batch File	1 KB
run-client.sh	2023/06/12 9:08 PM	SH File	1 KB

## Step User Instruction

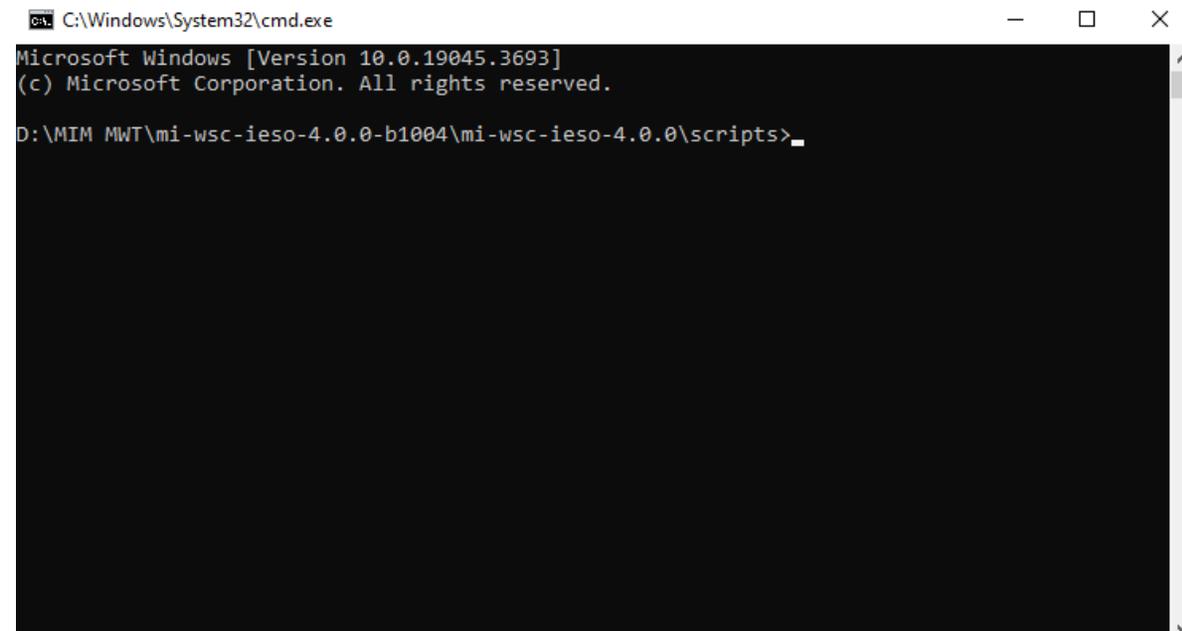
## Expected Result

- 8 Select the address bar in **File Explorer** to select the path. Erase the path and type **cmd**. Then, press enter.

Select the path and type the command "CMD" in the address bar.



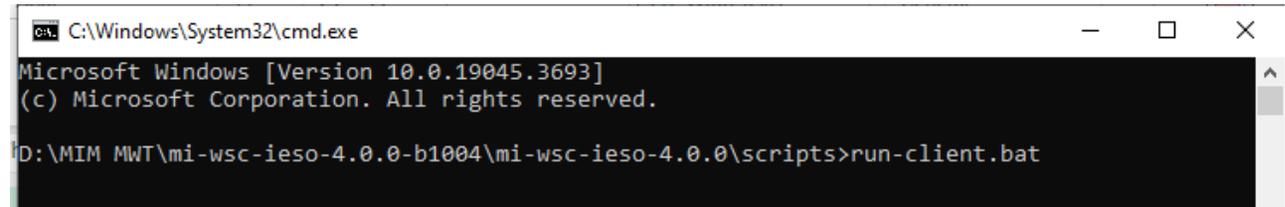
The Command Prompt should open with the appropriate path as shown below.



**Step User Instruction****Expected Result**

9 Type the command “**run-client.bat**” in the **Windows Command Prompt** and press enter.

Type the command as shown below:

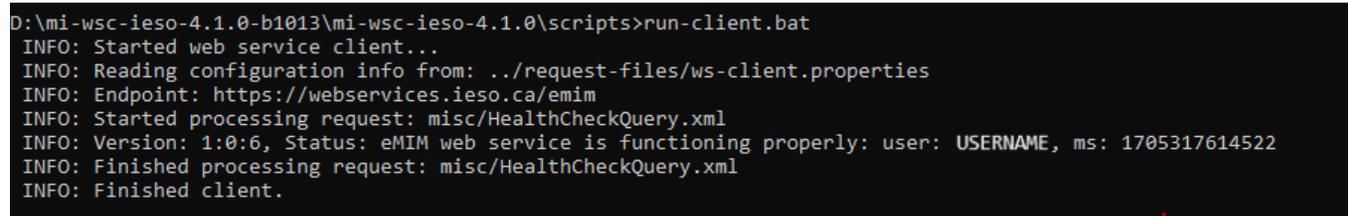


```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.3693]
(c) Microsoft Corporation. All rights reserved.

D:\MIM MWT\mi-wsc-ieso-4.0.0-b1004\mi-wsc-ieso-4.0.0\scripts>run-client.bat
```

10 Confirm the script ran successfully.

If run is successful, the results in the **Command Prompt** should look like this:



```
D:\mi-wsc-ieso-4.1.0-b1013\mi-wsc-ieso-4.1.0\scripts>run-client.bat
INFO: Started web service client...
INFO: Reading configuration info from: ../request-files/ws-client.properties
INFO: Endpoint: https://webservices.ieso.ca/emim
INFO: Started processing request: misc/HealthCheckQuery.xml
INFO: Version: 1:0:6, Status: eMIM web service is functioning properly: user: USERNAME, ms: 1705317614522
INFO: Finished processing request: misc/HealthCheckQuery.xml
INFO: Finished client.
```

If the run is unsuccessful, the result should show a row with a message starting with ERROR.



# Additional Resources

Reference materials on the MIM API System are available here:

- [MIM API: XSD](#)
- [MIM API: WSDL](#)
- [MIM Web Services Toolkit \(MWT\)](#)
- [MWT User Guide](#)
- [MIM Sample Request and Response files](#)

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